

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P412996

Luminaire Tested: **14PD-40-PC3-L927**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-40-PC3-L927
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 2700 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

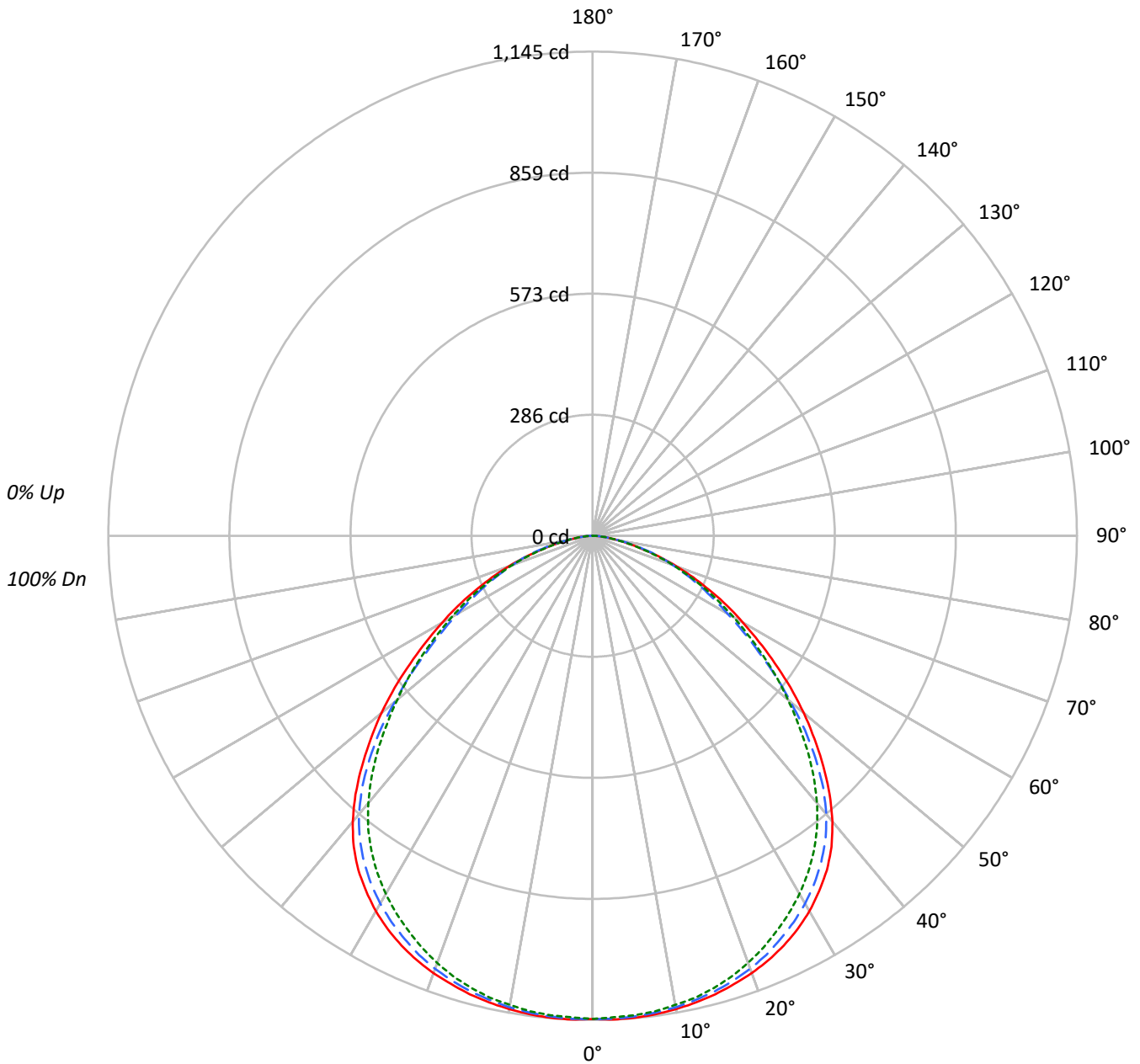
Lumens per Lamp: N/A
Luminaire Lumens: 2953.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73																			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62																			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54																			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	53	49	47																			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41																			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37																			
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33																			
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30																			
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3075	3075	3075
5°	3091	3083	3074
10°	3106	3093	3078
15°	3127	3107	3085
20°	3152	3120	3078
25°	3175	3124	3060
30°	3186	3121	3039
35°	3171	3095	2995
40°	3099	3019	2898
45°	2938	2837	2733
50°	2727	2553	2523
55°	2469	2251	2300
60°	2208	1982	2069
65°	1948	1777	1838
70°	1658	1574	1586
75°	1275	1343	1237
80°	934	981	927
85°	627	689	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.7
10°-20°	314.8	10.7
20°-30°	484.1	16.4
30°-40°	585.8	19.8
40°-50°	571.9	19.4
50°-60°	441.9	15.0
60°-70°	283.8	9.6
70°-80°	133.9	4.5
80°-90°	28.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	907.5	30.7
0°-40°	1493.3	50.6
0°-60°	2507.1	84.9
0°-90°	2953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1144	1139	1141	1140	1138	109
15°	1122	1117	1115	1111	1107	317
25°	1069	1061	1052	1038	1031	493
35°	965	955	942	921	912	602
45°	772	762	746	726	718	594
55°	526	501	480	480	490	472
65°	306	288	279	276	289	305
75°	123	125	129	118	119	135
85°	20	23	22	22	22	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1145.2	1140.7	1143.2	1143.2	1139.6
5°	1144.2	1139.1	1141.2	1140.1	1138.1
7.5°	1141.2	1136.1	1137.6	1136.6	1134.1
10°	1136.6	1131.0	1132.0	1130.0	1126.5
12.5°	1130.5	1125.5	1124.4	1121.4	1118.9
15°	1122.4	1116.8	1115.3	1111.3	1107.2
17.5°	1111.8	1106.2	1103.7	1097.6	1093.0
20°	1100.6	1094.1	1089.5	1080.4	1074.8
22.5°	1086.5	1078.9	1072.8	1060.1	1054.5
25°	1069.2	1060.6	1052.0	1038.3	1030.7
27.5°	1049.0	1039.9	1029.7	1014.5	1005.9
30°	1025.2	1016.1	1004.4	987.2	978.1
32.5°	996.8	987.7	975.5	955.8	946.7
35°	965.4	955.3	942.1	920.8	911.7
37.5°	927.9	916.8	904.6	881.3	871.7
40°	882.3	872.7	859.5	836.2	825.1
42.5°	829.7	821.0	806.4	784.1	773.4
45°	771.9	762.3	745.6	726.3	718.2
47.5°	711.6	697.5	681.3	664.5	660.0
50°	651.4	633.1	609.8	601.2	602.7
52.5°	589.6	566.3	546.0	539.4	547.0
55°	526.3	500.9	479.7	480.2	490.3
57.5°	466.0	439.6	421.9	421.9	435.1
60°	410.3	386.0	368.2	367.7	384.4
62.5°	358.6	333.8	320.6	320.6	335.8
65°	305.9	287.7	279.1	276.0	288.7
67.5°	257.3	244.6	238.6	235.0	243.1
70°	210.7	202.6	200.1	196.0	201.6
72.5°	164.6	162.6	167.7	158.0	160.6
75°	122.6	124.6	129.2	118.5	119.0
77.5°	88.1	92.2	93.7	88.6	88.6
80°	60.3	65.3	63.3	60.8	59.8
82.5°	38.5	41.0	41.0	39.5	38.5
85°	20.3	23.3	22.3	21.8	21.8
87.5°	7.6	10.6	10.6	10.1	9.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)